Earth Science

Cloud Enabled Scientific Collaborative Research Environment (CESCRE)



Completed Technology Project (2012 - 2014)

Project Introduction

The Cloud Enabled Scientific Collaborative Research Environment Project will enable scientists to interactively chare algorithms, software using the following approach: 1. Integrate at least two scientific packages into commercial cloud enironments such as Amazon, Microsoft, or others. 2. Create a virtual meching image catalog and a data catalog to streamline discovery and integration of available scientifig algorithms, raw and processed data. 3. Creat an Eclipse-based Integrated Develpment Environment as a front end to develop, execute, and monitor cloud based workflows.

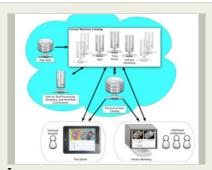
Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Туре	Location
	Lead Organization	NASA Center	Pasadena, California
United States Geological Survey(USGS)	Supporting Organization	US Government	Menlo Park, California

Primary U.S. Work Locations

California



Image

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Organizational Responsibility

Responsible Mission Directorate:

Science Mission Directorate (SMD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

Earth Science



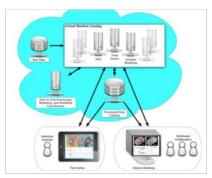
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Images



Cloud Enabled Scientific Collaborative Research Environment Project

Image (https://techport.nasa.gov/imag e/20857)

Project Management

Program Director:

George J Komar

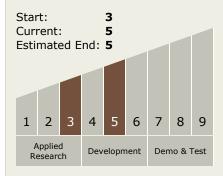
Principal Investigator:

Mark W Powell

Co-Investigators:

Tomas J Soderstrom Paul A Rosen Eric M Gurrola Paul R Lundgren

Technology Maturity (TRL)



Technology Areas

Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
 - ☐ TX11.4 Information Processing
 - ☐ TX11.4.4 Collaborative Science and Engineering



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